

# LACPR – Group 5

- Richard Bird
- George Filz
- Peter Nicholson
- Harry Stefess
- Neil Schwanz
- Bob Yokum

# Topics Discussed

- Conventional Levee Construction
- Alternative Levee Construction
- Seepage Control
- Bladder Dams

# Conventional Levee Construction

- Staged construction
- Flat/shallow slopes determined by design
- Consider hydraulic fill
- Consider wick drains

# Alternative Levee Construction

- Foundation Improvement
  - Shallow mass stabilization
  - Shear wall
- Reinforced soil embankment (steeper slopes)
- Wide top width to accommodate future raises
- Erosion protected slopes

# Seepage Control

- Cutoffs
  - Soil bentonite
  - Cement bentonite
  - Deep mixing
  - Sheet pile
- Seepage berms
- Relief wells

# Bladder Dams

- Below water storage
- Gravity fill (1 hour)
- Pump deflate (3 hours)